Thanks for purchasing RVS-300/RVS-300G Black Box, a driver recording system.

Please be sure to read this manual in details before use.

We do not provide a warranty for the compatibility of some accessories which are not provided by us. We are also not responsible for any defect caused by such accessories.

After getting the warranty card, please check the purchasing data (Date, Shop Info)on it.

Rear View Safety Viewer Program which is provided is designed to be run on Window 2000/XP/Vista.

it's product statement and caution(or attention) is below a user manual or instruction manual because Type label is too small(No room for this writing) and required text is already included in the user guide

Statement (1)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions;

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received. Including interference that may cause undesired operation.

Statement (2)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, users, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the userwill be required to correct the interference at his own expense.

©Warning

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT

¤Caution

Danger of explosion if battery is incorrectly replaced. replace only with the same or equivalent type.

©Information

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures. And also used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Hereby, the manufacturers declare that this VIDEO CAR BLACKBOX is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.



Road Eye is a device to assist a safety driver. We are neither responsible nor compensate for any defect and damage caused by user's misuse and carelessness.

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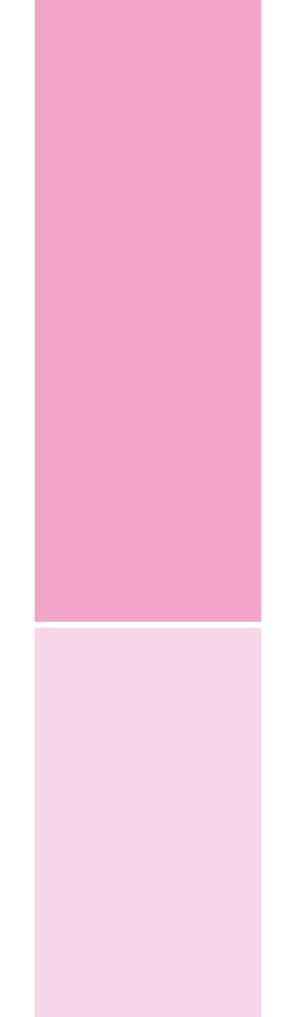
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RVS-300 is a Driver Recording System which applies GPS (Global Positioning System), GPRS/GSM (Option) and 3D acceleration gravity sensor (G-Sensor). Before using this product, please be sure to read this manual.

- Actual product specifications may differ from what is indicated in this manual as product enhancements are implemented without prior notice.
- rinted at the time of production, this manual may contain technical or editorial mistakes or omission.



Precautions for Safety



Warning!

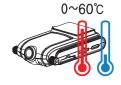
To prevent causing damage to the user's property and to ensure the user's safety, please read carefully the following precautions.



While driving, never perform any operation and always park the car in a safe place first before operating the device.



Do not disassemble, repair, or reconstruct without an authorized technician.



Use the device under proper temperature. Leaving the device for a long time under hot or cold temperature can be a cause of malfunction. (Proper Temperature: 0 ~ 60)



Avoid exposing this product to shock or impact and keep it away from magnetic fields or vibration.

Keep the product away from wet places.



In using vehicle power, do not use for a long time with the engine off. It may be a cause of discharge.



This product is designed to be used with Cigar Jack Power. In case of using direct electric power (B+ Power) of car, please discuss with a specialist, and any problem occurred in this case will belong to users responsibility.



Cautions in Use



Cautions



Performing while driving can be a cause of accident. Always park the car in a safe place first before operating the device.



Check the installation status before driving. Driving under the physical conditions such as uneven, a sharp curve in the road with unstable installation might cause damage.



In using vehicle power, please first check if there is no problem with the power supply before connecting the device to the cigar jack adaptor. Any sudden power spike may damage the device.



This product is designed to automatically record a video file, triggered by a user-defined level impact to your car. The manufacturer does not guarantee about every impacts on your car to trigger this function.



Prevent any foreign substance to come in contact with the memory card or the internal parts of this device, as it might cause malfunctions. Keep the lens clean and avoid any obstacles in the camera angle to get the clear view.



Do not put other substances around the device. It can be mirrored through the windows and recorded with accident images.



In the accident getting less impact than the minimum user defined, the image may not be recorded. (Refer to the manual)



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Specification

Front Camera	120° 1/3" CMOS 300K Pixel Digital Sensor / WDR Support
External Camera	Option (90° ¼" CCD 270K Pixel NTSC)
Recording Resolution	H.264 (VGA 640*480 up to 30fps) * 2ch use : VGA 640x480 up to 15fps
Shock GPS	Internal GPS
Shock Sensor	Internal 3D G-Sensor
Storage	SD Memory Card (1GB ~ 16GB)
Audio	Internal MIC
Power	DC 12V ~ 24V (From Car Adaptor)
File Saving	Upon Impact (Automatic/Manual)
Normal Recording	Support
Real Time Clock	Support
TV-Out	Support
Size	119.5 x 55.0 (75.5) x 31.7 (mm)
Weight (g)	137(W/O GPRS), 157(With GPRS)
GPRS	RVS-300 (No GPRS) / RVS-300G (GPRS included)



Package Contents

Please check the contents after opening the gift box. (Refer to the below images)



RVS-300 (Or RVS-300G)



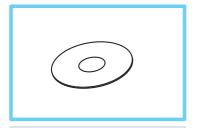
Cigar Jack Power Cable



AV Cable (For TV Connection)



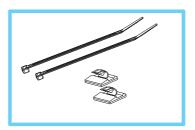
User Manual



Viewer Program CD



SD Memory Card



Cable Tie / Holder

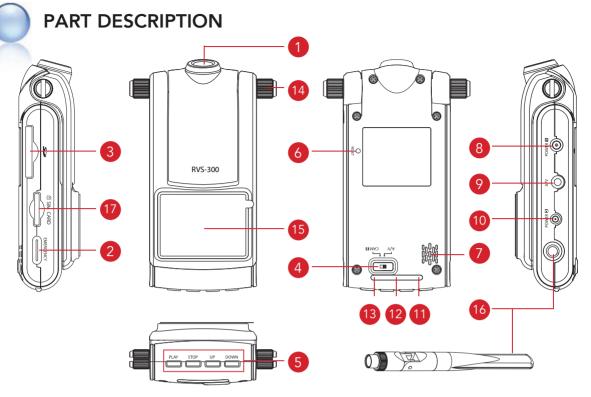


GPRS Ant. (Only for JS-300G)



External Camera & Cable

(Actual product specifications may differ from the images in this manual as product enhancements are implemented without prior notice.)

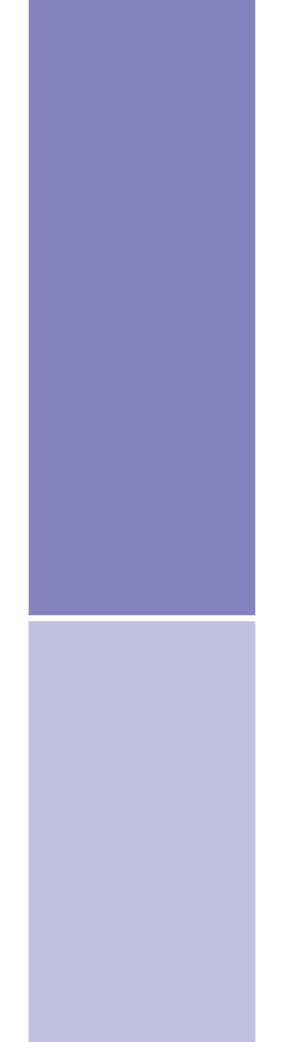


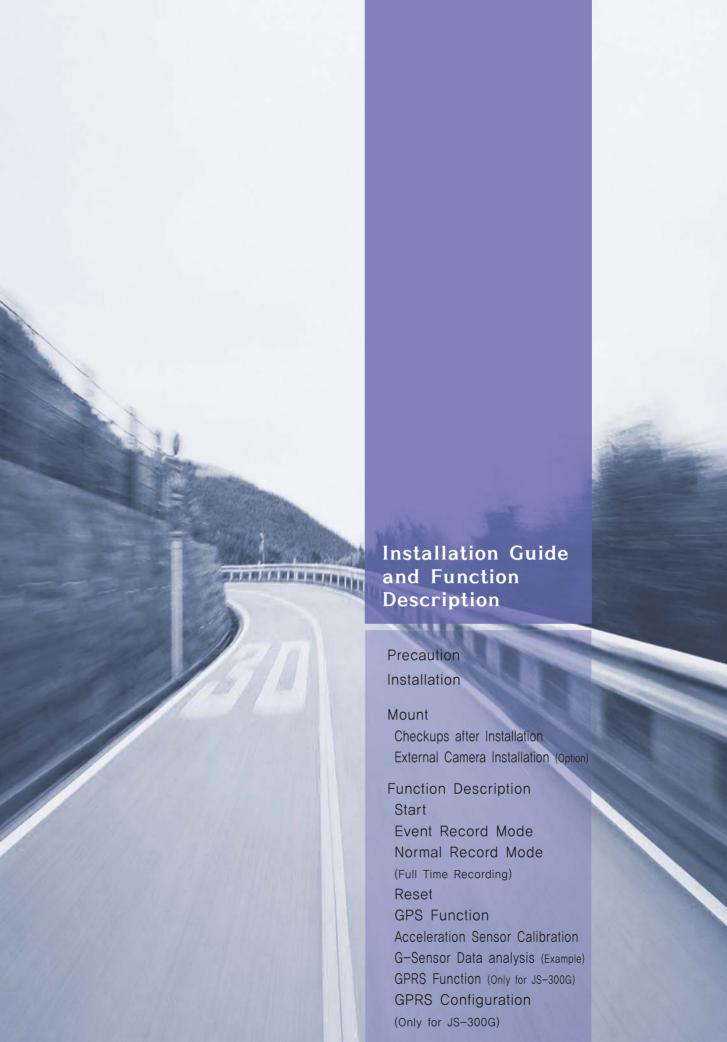
1	Front Camera
2	Emergency Button
3	SD Card Slot
4	Mode Selection Switch 1. A/V: TV Out 2. CAM ☑: External Camera
5	Function Key
6	Reset Key
7	Mike
8	Main Power Jack (Power 1)
9	TV Out Jack (A/V Mode) /External Camera Video In Jack (External Camera Mode)
10	External Camera Jack (Power 2)
11	RED: Event Mode/GREEN: Normal Mode
12	YELLOW: GPRS (Only for RVS-300G)
13	BLUE:GPS
14	Lock Screw
15	Double Faced Foam Tape (For attaching to window)
16	GPRS Antenna Jack (Only for RVS-300G)
17	SIM Card Slot (Only for RVS-300G)



LED Signal Descriptions

Classification	RED (Event)	GREEN (Full Time)	YELLOW (GPRS)	BLUE (GPS)	Status
Power connecting (With SD Card)	0		0	0	Blinking at 1 sec interval one after another.
Power Connecting (Without SD Card)	0	0			Blinking at 0.5 sec interval by turns
Stand by Event Recording	\circ				Blinking at 1 Sec interval
When Event occurs (Or when press Emergency Key)	0				Blinking at 0.1 Sec interval for 3 seconds
On Normal (Full Time) Recording		0			Blinking at 1 Sec interval
When GPS signal is available				0	Light on continuously
When GPS signal is not available				0	Blinking at 1 Sec interval
When calibrates G-Sensor	0				Blinking at 0.1 Sec interval for a second
Firmware Upgrade (When Power is connected)	0		0	0	Light on at 1 sec interval rapidly by turns
Firmware Upgrade (On progress)		0			Blinking at 0.1sec rapidly
Firmware Upgrade (Completed)		0	0	0	Light on at the same time
File Viewer (When connected)	0				Light off after lighting
File Viewer (When runs)		0			Light on continuously
When searches GPRS Network			0		Blinking at 1 Sec interval
When GPRS Network is connected			0		Light on continuously
When transmits GPRS Data			\circ		Blinking at 0.1 Sec interval
System Error	0	0			Light on continuously (with Orange color)







PRECAUTIONS



Turn off the engine before installation.

- ★Connect the main power of the device at last after installation.

 (POWER here in after called "Power")
- ★Insert SD Memory card before connecting the device.
- ★Install the device in safe and bright place
- ★Connect the main power through cigar jack provided (DC 12V ~ 24V).



Installation



1 Attach the device

2 Fix the device



Get the camera lens focused on the front and fix with Lock Screws of the device.

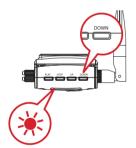
★ GPS reception part should be exposed to the window for the better reception.

2

${\it 3}$ Connect the power

Connect the cigar jack to the power port and check if the power is working properly.

 \bigstar SD Card should be inserted before connecting the power. Otherwise, Red and Green LED would be blinking at 0.5sec interval by turns.



4 Calibrate G-Sensor (Acceleration Sensor)

Press "Down" for 3 seconds when power is on, and calibrate G-Sensor value. (Check if Red LED is blinking at 0.1sec interval rapidly for a second.) ★ When calibrates G-Sensor, put the device on flat place.
When changes the place to attach the device, calibrating should be done once again.



5 Working Test

Play back the saved data after testing drive. Then, check if the data is recorded correctly and revise the camera place on it.

★ JS-300/JS-300G is working based on High- Sensitivity Camera Sensor.

The recorded video image can be shown dark if the device is installed toward the sky.



Checkups after installation



If the camera angle is not proper, adjust with rotating the lock screw and fix it after.

 \bigstar Refer to the steps 2 ~ 5.



External Camera Installation (Option)



1 Select a place to install

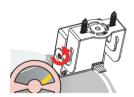
Select a place to install the external camera and fix with the screw provided. (The connecting part should be toward to the ground.)



2 Connect the camera to RVS-300 / RVS-300G

Connect the camera to RVS-300 with the cable provided. (POWER **2**,A/V)

★ Mode Selection Switch must be on CAM2 to use an external camera.



${\it 3}$ Fix the camera angle

After adjusting camera angle, fix the camera with the lock screws on the bracket.

- ★ Disconnect the power during installation of the camera.
- ★ External Camera is only for internal use.



Start

- Insert SD Card into RVS-300 / RVS-300G, then power on. Red, Yellow and Blue LED will light sequentially at a second interval.
 About 3 seconds after lighting, RVS-300 / RVS-300G will start running.
- ★ If it powers on without SD Card, Red and Green LED will be blinking alternately at 0.5 sec interval. In this case, disconnect the power and connect power again after inserting SD Card.
- 2. Recording is run based on Event and Normal record mode (Full Time Mode), and the present recording mode is saved and memorized into Configuration Variable Setting File in SD Card.

(The Factory default record mode is Event Mode and it would be same after formatting SD Card.)

2. To change the recording mode, connect power under the status of pressing Emergency key simultaneously.

The mode will be changed either Event Record mode to Normal Record Mode or Normal Record Mode to Event Record Mode.

The changed recording Mode would be saved into SD Card and maintained until the mode is changed by user.

When pressing the Emergency Key, press until Red LED turns on.



Event Record Mode

- 1. During Event Record Mode, Red LED is blinking at one second second intervals.
- 2. When the impact value recognized by G-Sensor (acceleration sensor) is bigger than user-defined value or when user presses Emergency key manually, the image and voice before 10 seconds and after 20 seconds of the event will be saved as a file. When an event occurs, Red LED will be blinking rapidly at 0.1 second intervals for 3 seconds and inform of it.
- 3. If another event occurs while the previous event is being saved, the second event will be ignored.

(If emergency record is required, just press Emergency button and recording will be started. After recording, the mode will be back to Event Record Mode.)

Event can be recorded up to 100 times as a file, and from the file recorded first it would be overwritten sequentially when the number of file is exceeding the maximum.

- 4. When the power is disconnected on Event Record Mode, RVS-300 while recording an event, it will shutdown after saving the event, maximum 20 seconds. Otherwise it will shutdown instantly.
- the Stop Key is pressed, RVS-300 / RVS-300G will complete recording the event and all functions will be stopped. (All LED lights will be off.)
 To start RVS-300 again, disconnect power and reconnect.



Normal Record Mode (Full Time Recording)

- 1. Green LED is blinking at a second interval on Normal Record Mode.
- 2. Normal Record Mode records video and audio at 5 minute interval successively.
- 3. If SD Card storage is full during Normal Mode, RVS-300 / RVS-300G will overwrite starting from the file saved first.
- 4. During Normal Mode, G-Sensor (Acceleration Sensor) and Emergency Key function will be ignored.
- 5. If power is disconnected during Normal Mode, RVS-300 / RVS-300G will be shutdown after 10 second additional recording. If the STOP Key is pressed during Normal Record Mode, RVS-300 / RVS-300G will complete recording and all functions will be stopped. (All LED light will be off). To restart RVS-300, disconnect power and reconnect.



Reset

- 1. If GPS data is not received properly, Blue LED will blink at one second intervals. When GPS Data reception is working properly, Blue LED will be lit continuously.
- 2. If the Play Key is pressed during either Normal Record Mode or Event Record Mode for more than 3 seconds, GPS Cold Start will be operated with Blue LED blinking rapidly at 0.1 second for one second.
- 3. If GPS Data reception is running correct, set the time of internal RTC (Real Time Clock) on GPS time. Once set on GPS time, it will maintain the exact time without any additional time set. The internal RTC time is reflected with connecting the power again after power disconnection.
- 4. If there is any substance which can give the bad effect to GPS reception, please leave it in the distance from RVS-300.



Acceleration Calibration Function

- If GPS data is not received properly, Blue LED will blink at one second intervals. When GPS Data reception is working properly, Blue LED will be lit continuously.
- 2. If the Play Key is pressed during either Normal Record Mode or Event Record Mode for more than 3 seconds, GPS Cold Start will be operated with Blue LED blinking rapidly at 0.1 second intervals for one second.
- 3. If GPS Data reception is running correct, set the time of internal RTC (Real Time Clock) on GPS time. Once set on GPS time, it will maintain the exact time without any additional time set. The internal RTC time is reflected with connecting the power again after power disconnection.
- 4. If there is any substance which can give interfere with the GPS reception, please leave it at a distance from RVS-300.



Acceleration Calibration Function



G-Sensor (Acceleration Sensor) shows the Acceleration Value of X, Y and Z axis on the unit of acceleration of gravity,
 1g = 9.8m/s2. And the directions are as below image.

X Axis	Right & Left	(Right +)
Y Axis	Front & Rear	(Front +)
Z Axis	Top & Bottom	(Top +)

If a vehicle is parked on a flat plane, G-Sensor data should have a value of X=0g, Y=0g and Z=+1g. However, it would be changed by the place RVS-300/RVS-300G is placed and mounted. Thus G-Sensor should be calibrated to get more exact data

2. If the Down Key is pressed during either Normal Record Mode or Event Record Mode for more than 3 seconds, Calibration will be operated with Red LED blinking rapidly at 0.1 second intervals for one second.

After the calibration, G-Sensor Data will show a value of:

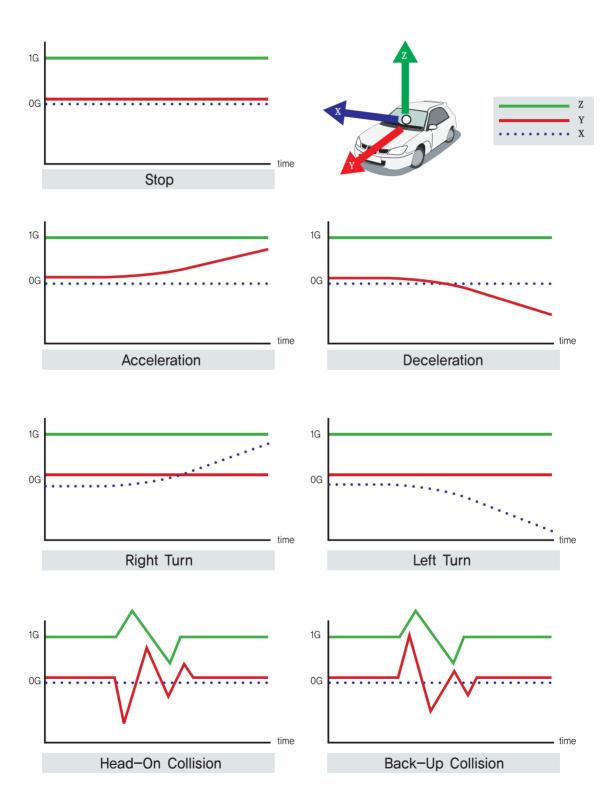
X = 0g, Y = 0g and Z = +1g, regardless of the mounting place.

G-Sensor Calibration must be done on a flat plane after parking.



G- Sensor Data Analysis (Example)

Viewer Program shows G-Sensor Data Graph as the below images upon Log Data which is saved with video files and driving status can be analyzed through the graph.





GPRS Functions (GPRS Function is only for RVS-300G)

GPRS Specification

- Quad-band EGSM 850 / 900 / 1800 / 1900 MHz
- Output power
 - Class 4 (2W) @850 / 900 MHz
 - Class 1 (1W) @ 1800 / 1900 MHz
- Sensitivity
 - 107 dBm (typ.) @850 / 900 MHz
 - 106 dBm (typ.) @ 1800 / 1900 MHz
- GPRS class 10
 - 3 time slots in RX (43200 bps max) and 2 time slot in TX (28800 bps max)
 - 4 time slots in RX (57600 bps max) and 1 time slot in TX (14400 bps max)

GPRS Functions

- Yellow LED blinks under GPRS disconnection and it is lighting continuously when GPRS is connected and available to data Tx / Rx.
- When GPRS Data is transmitted or received, Yellow LED blinks at 0.1 second intervals.
- RVS-300 provides to transmit the below data such as G-Sensor value, GPS data through SMS to the designated number.

Date: 2009-02-01 04:19:30

G-Sensor: X=-0.02, Y=+0.93,

Z = -0.03

Latitude : 37.237981 N

Longitude: 126.508762 E

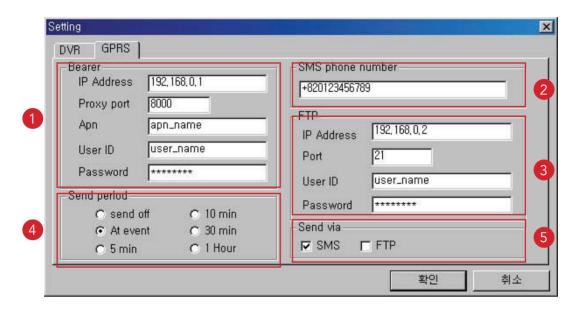
Speed: 51 km/h

RVS-300 provides Data Transmission function through FTP and Snap shot files on JPEG format can be transmitted to the designated FTP Server.



GPRS Configuration Set

Click Configuration Setting button, on RVS-300 Viewer Program. Then, click GPRS Tap and the below GPRS Configuration setting image will pop up.



	GPRS Bearer
1	 IP Address: Proxy Server IP Address. Proxy Server can be skipped when it is not used. APN: Access Point Name Proxy port: HTTP Proxy port (TCP) User ID: Authentication User ID Password: Authentication Password
2	SMS phone number Type a phone number which SMS is sent to.
	FTP
3	 IP Address: FTP Server IP Address User ID: Authentication User ID Password: Authentication Password Port: FTP port
4	Send period Set the interval to send.
	Send via
5	Set the protocol which SMS is sent via.



Playback through TV



Cable connection for TV Out

- 1. Please connect A/V Cable to the jack on RVS-300 / RVS-300G.
- 2. Connect Yellow color A/V Output cable to Composite Video Output Terminal on TV and connect Red (Right) and White (Left) color A/V cables each to Composite Audio Output Terminal on TV.
- 3. Select A/V, CAM 2 Mode Selection Switch on A/V.
- 4. Connect a Power Adapter to POWER 1
- ★ Adapter is an optional item which may be purchased separately.



Usage of TV Out.

TV Out is used for the below two usages.

- 1. Real Time monitoring of forward shot images.
- 2. Play back the video file saved into SD Card with connecting TV directly. (Please refer to File Viewer Mode) If the power is connected without pressing any key after connecting the A/V Cable to TV, RVS-300 / RVS-300G will start on Forward Shooting Video Output Mode. And if the power is connected while pressing the Play key, it will start on File Viewer Mode.
- ★ TV-Out Signal Format (NTSC, PAL, PAL-M) setting should be done through the configuration set on the viewer program.



File Viewer Mode

Connect the power under the status of pressing PLAY Key and File Viewer Mode which can replay the saved files through TV-Out is started. (Green LED is blinking on operating.)

- 1.Press PLAY Key until Red LED is on after power connection.
- 2. Mode Selection Slide Switch must be on A/V, CAM 2.



Function of each key

In the case there are files recorded by CAM 1 and 2, which are mixed up together on Event File Viewer, the file recorded by CAM 1 is played first and the file recorded by CAM 2 is played after automatically.

Item	File List Menu	On Playing
PLAY	Menu Select / Playback the selected file	Replay / Pause
STOP	Move to top menu	Stop Playing / Move to the file list
UP Move up Repla		Replay 10 second forward
DOWN	Move down	Replay 10 second backward

★ 1 Channel: Front Camera★ 2 Channel: External Camera



Playback the file recorded on Normal(Full Time) Mode

1 Select NORMAL FILE VIWER

2Select Normal File Folder

FILE VIEWER MENU

- 1. NORMAL FILE VIEWER

NORMAL FILE VIEWER

01_A:\NormalMovie_20090201

 $oldsymbol{3}$ Select the target file to

NORMAL FILE VIEWER

01_drf_20090201_035942_1.mp4

Playback the file recorded on Event Mode

 $\emph{1}$ Select EVENT FILE VIWER

FILE VIEWER MENU

- 2. EVENT FILE VIEWER

2Select EVENT File

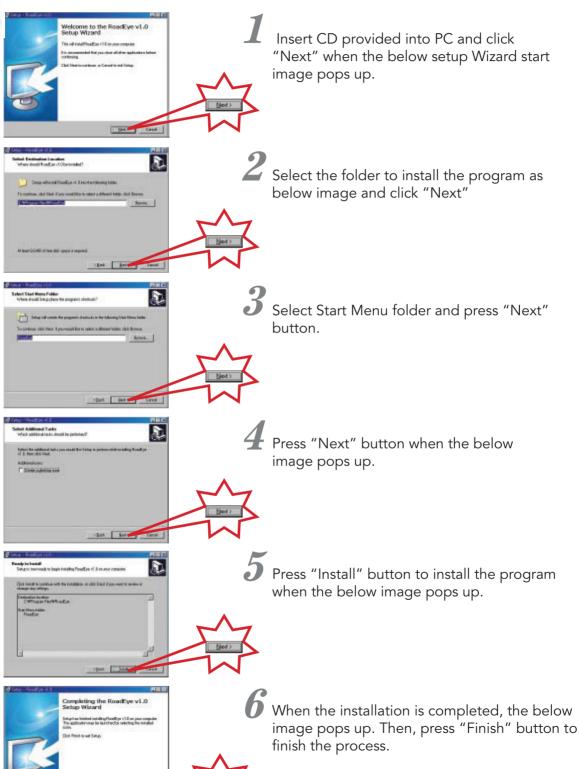
EVENT FILE VIEWER

01_evt_20090201_035646.txt

Playback through PC



Rear View Safety RVS-300 Viewer Program installation

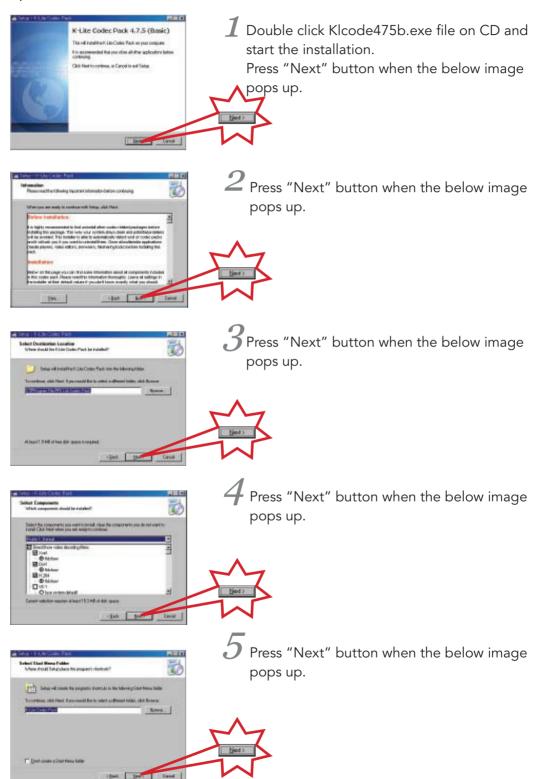


03 Playback



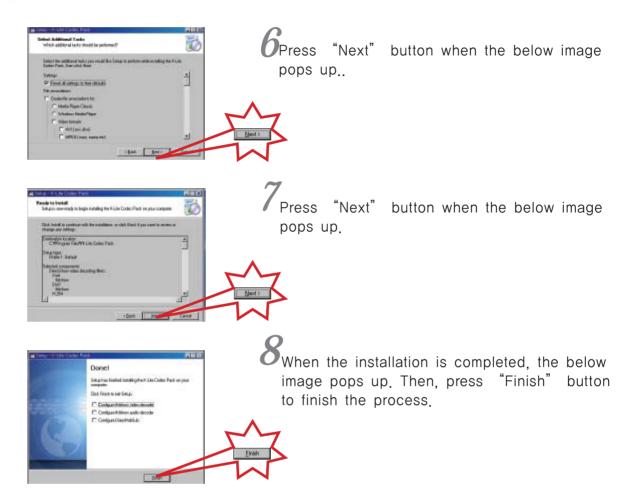
Codec Installation

To play back the files recorded through RVS 300 Viewer program, K-Lite codec provided with a bundle CD must be installed.





Codec Installation





How to use Viewer Program

Double click Viewer Program Icon



Viewer Program Main Screen



1	Playback Display
2	Slide Bar
4	shows a play back progress and users can start play back a file on a specific part with moving it.
	G-Sensor Graph
3	■ It shows G-Sensor data with graphs.
4	Menu Button
5	Speedometer and Compass
	Google Map
6	Users can track the driving route with GPS location data saved with the
	video file through this map.
7	Playback list
8	Indicates the video file route currently played.
	Additional Information Display
9	■ It shows additional GPS and G-Sensor information.

Menu Button and Control

Button and Control	Function	Description	
•>	Volume Control	It controls the play volume.	
	Stop	Stop playing and back to the start of the playing file.	
Idd	Previous	Play the previous file when selects the plural files and views in series.	
	Play / Pause	Press this key to pause during playing. Press once again to back to play.	
> 1	Next	Play the next file when selects the plural files and views in series.	
<u>;=</u>	Full Screen	Playback on Full size screen. ★ To be back to the standard screen size, double click Full size screen or press ESC.	
>> —-	Playback Speed Control	It controls the speed of playing, either slower or faster.	
	Report Print Out	Making a reporting file with Snap shot image, G-Sensor Graph and Map…etc.	
-	Configuration Set	Setting Operating configuration	
i	Program Information	Shows the current Program Version Information	

Google Map Control

Control	Function
### ### ###	Map Tracking, Map Zoom In / Out ★ Satellite Map view is providing smaller scale than Normal Map View.
지도 위성 중설	Select Normal Map View / Satellite Map View / Overlay Map View

03 Playback

Play List Button and Control

Button and Control	Function	Description
<u> </u>	Open Folder	Selects the folder to play
·	Delete	Deletes the selected file and G-Sensor, GPS Log file which were saved together.
Normal Movie Event Movie	File recorded on Normal Mode / File recorded on Event Mode	Selects and lists the files recorded on Normal Mode/ Event Mode. In the case of the file recorded by 2channel, it would deletes the file recorded by 1channel together.
All All Camera 2	Camera Channel Select filter	Selects and lists the selected camera file when playbacks the file recorded by 2channel.

Other Buttons

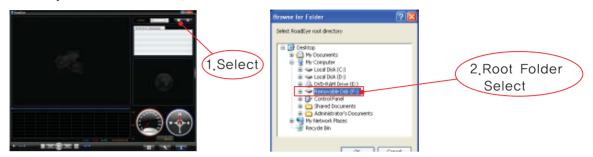
Button and Control	Function	Description
- II	Open / Close additional information screen	It opens or closes the additional information screen which shows the additional GPS and G-Sensor information.
_ X	Minimize / Close Window	



Playback Movie File

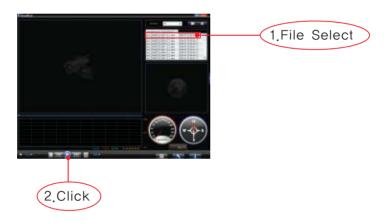
Playback a single file

1.Select a target root folder in SD or PC with clicking Open Folder on Playback List screen.



2. Select a target file to play on the file list and double click.

After selecting a file on the list, Playback button are can be pressed to play.



Continuous Playback with plural files

- 1.Select a target root folder in SD or PC with clicking Open Folder on Playback List screen.
- 2. Select a target file to play first and click.
- 3.Select the target files to play, and click with pressing CTRL key at the same time. (To release the selection, click again with pressing CTRL at the same time.) If clicks the first file and clicks the last file to view with pressing SHIFT Key at the same time, all the files from the first to the last to view would be selected successively.

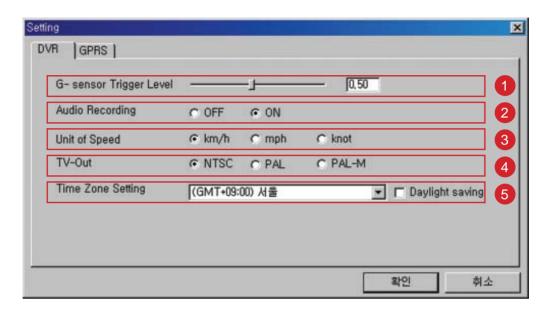
To select all files, press CTRL + A key.

- 4. Click Playback Button and start the continuous play.
 - ★ In order to playback the movie files through the viewer Program, either connect SD Card to PC or copy all the folders and files stored in SD Card into PC.



Configuration Set

Click Configuration Set button and the below configuration image will pop up.



	G-Sensor Trigger Level	
1	Move the slide bar and select the value between 0.10 \sim 0.99.	
	(Default Value: 0.50) (0.30: Sensitive, 0.50: Normal, 0.70: Dull)	
2	Audio Recording	
	Select Voice Recording availability, ON or OFF. (Default: ON)	
3	Unit of Speed	
	Select a unit of speed. (Default: km/h)	
4	TV-Out	
	Select TV Output format. (Default: NTSC)	
5	Time Zone Setting	
	Set the time zone of user. (Default: Korea GMT+09:00)	





Firmware Update

RVS-300 is firmware upgradeable through SD Card.

- 1. Copy the target file to update, "app.bin" into a root folder of SD Card.
- 2. Insert SD Card into RVS-300 / RVS-300G and connect the power.
- 3. When Red, Yellow and Blue LED are sequentially lit at a one second interval and JS-300 / JS-300G is started, Update is progressed with Green LED blinking rapidly at 0.1 second intervals.
- 4. When Update is completed, Green, Yellow and Blue LED are all lit at the same time.
- 5. Disconnect the power and reconnect. RVS-300 is now working based on the new firmware.



SD Card Data

1. Event Folder

On the Event Record Mode, RVS-300 / RVS-300G is recording the time, file name, G-Sensor Data and GPS Data and save it on the name of "evt_yyyymmdd_hhmmss.txt" when the event occurs.

2. EventMovie Folder

On the Event Record Mode, RVS-300 /RVS-300G is records for the maximum 30 seconds of video and audio and save it on the name of "evt_yyyymmdd_hhmmss_1.mp4" in this folder when the event occurs. ("evt_yyyymmdd_hhmmss_2.mp4" for 2channel)

EventMovie\Acc Folder

G-Sensor Log on the Event Record Mode is saved on the name of "acc_yyyymmdd_hhmmss.txt" in this folder.

EventMovie\Gps Folder

GPS Log on the Event Record Mode is saved on the name of "gps_yyyymmdd_hhmmss.txt" in this folder.

3. NormalMovie_yyyymmdd Folder

On the Normal Record Mode, RVS-300 records video and audio and saves it on the name of "drf_yyyymmdd_hhmmss_1.mp4" in this folder. ("drf_yyyymmdd_hhmmss_2.mp4" for 2channel.) When the saved file number in the folder is reaching to 100th, another new folder is created and the file from the 101st is saved into the new folder.

NormalMovie_yyyymmdd \Acc Folder

G-Sensor Log on the Normal Record Mode is saved on the name of "acc_yyyymmdd_hhmmss.txt" in this folder.

NormalMovie_yyyymmdd \Gps Folder

GPS Log on the Normal Record Mode is saved on the name of "gps_yyyymmdd_hhmmss.txt" in this folder.

4. Setup Folder

Environment Variables and G-Sensor Calibration Data files are saved into this folder.

5. Temp Folder

This is a folder to save the temporary files for GPRS functions.

LIMITED WARRANTY STATEMENT

This Limited Warranty shall apply to the Rear View Saftey Product including all accessories as contained within the original RVS gift box ("the Product"). Rear View Safety Co., LTD. (RVS) warrants that product from its authorized distributor will meet the applicable product specifications and be free from all defects in material and workmanship for an applicable period herein ("Limited Warranty"). This Limited Warranty is subjected to the following terms and conditions:

- 1. This Limited Warranty is given only to the original purchaser of the Product ("Customer") it shall neither exclude nor limit a) any statutory rights of the Customer or b) any of the Customer's rights against the sellers of the Product.
- 2. The Limited Warranty shall be restricted to the country/region of Product purchase this is to avoid excessive import or exportation of the Product throughout the supported countries.
- 3. This Limited Warranty is only valid and enforceable in countries where the Product is sold. Outside of the country of purchase, any repairs performed by RVS's Authorized Service Centre are subject to charge to the purchaser at normal repair rates.
- 4. The Limited Warranty entitles the Customer to a Product replacement or a full refund of the purchase price for any defects relating to the performance and/or functioning of the Product which result from normal use of the Product, provided that such a defect arises within ten (10) days of the original date of purchase of the Product and cannot be otherwise repaired. RVS will provide a replacement or repair of the Product at RVS's own expense for any such defect arising after ten (10) days but within one (1) month of the original date of purchase. This Limited Warranty may not be sold on, assigned, transferred or given to any subsequent purchaser or acquirer of the Product.
- 5. This Limited Warranty shall last for twelve (12) months from the date of original purchase ("Warranty Period"). Avalid original invoice ("Proof of Purchase") is required.
- 6. This Limited Warranty covers expenses for inspecting and repairing the Product during the term of the Limited Warranty. Customer shall deliver the defective Product to the RVS-designated premises together with the warranty certificate, proof of purchase, and proof of identity of the Customer; however, any defective Product shipped by the Customer missing any one of such documentation may render this Limited Warranty invalid. Where the defect was the result of the Customer's own mishandling of the Product, force majeure, or the result of a repair by an unauthorized service provider, the Customer shall bear all expenses relating to shipping such a defective Product.
- 7. RVS will return the repaired Product or another Product to the drop-zone for collection by the Customer in good working condition. All replaced faulty Products or components thereof will become the property of RVS.
- 8. This Limited Warranty applies only to the original hardware components of the Product and does not apply to any software or other equipment.
- 9. If RVS repairs or replaces the Product, the repaired or replaced Product shall continue to be warranted for the remaining term—of the Limited Warranty period or for three (3) months from the date of repair or replacement, whichever is longer.
- 10. Before returning any units for service, the Customer is solely responsible for backing up data and removing any confidential, proprietary, or personal information from the Product. RVS is not responsible for damage to or loss of any programs, data, or removal storage media.
- 11. This Warranty does NOT cover recovery from any software updates, installation and removal of the application software, or any loss of data storage.
- 12. RVS reserves the right to add, delete or amend the terms and conditions of this Limited Liability and any such change will be made available to the purchasers of the Product either on Rear View Safety's web site (http://www.rearviewsafety.com) or by other means.

- 13. THIS LIMITED WARRANTY SHALL NOT APPLY IF THE DEFECT WAS CAUSED THROUGH ANY OF THE FOLLOWING:
 - (a) The Product serial number, the accessory date code has been removed, erased, defaced, altered or is illegible; or
 - (b) The defect is resulting from the use of the product in a manner other than their normal and customary manner, e.g., in excess of their minimum specification or operating instructions, or malfunction or failure resulting from use of incalibrate voltages; or
 - (c) Deterioration of the Product due to normal wear and tear. All plastic surfaces and other natural wear of externally exposed parts of the product are scratched or damaged under normal usage; or
 - (d) The defect is arising from improper installation, unauthorized repair, alteration or modification to the Product by third parties; or
 - (e) The defect is arising from operating with components or accessories (ancillary or peripheral equipment) not officially authorized or provided by RVS or used in other than its intended use; or
 - (g) The defect or damage are arising from unauthorized modification; or
 - (h) The defect or damage is arising from misuse, mishandling, accidental lost, abuse, accident, negligence and damage caused directly or indirectly by Customer, including but not limited to improper testing, installation, alteration or modification of any kind, or spillage of food or liquid, or build up of dirt or dust, or mains supply problem, thunderstorm activities, or infestation by insects or vermin, or exposure to abnormally corrosive conditions, or operation with extreme heat or humidity; or
- 14. WHERE A DEFECT WAS UNDETECTABLE BY THEN-AVAILABLE TECHNOLOGY OR WAS THE RESULT OF COMPLYING WITH THE APPLICABLE REGULATORY STANDARDS OR WHERE THE DEFECT WAS THE RESULT OF THE CHANGE IN THE DESIGN OF THE PRODUCT COMPONENTS SUPPLIED BY A THIRD PARTY, RVS WILL NOT BE LIABLE FOR ANY LOSSES OR DAMAGES OF ANY NATURE, INCLUDING BUT NOT LIMITED TO LOST PROFITS OR COMMERCIAL LOSS OF THE CUSTOMER.
- 15. This Limited Warranty does not affect the Customer's statutory rights in law specific to the country of purchase, and such rights remain protected. Some countries do not allow the exclusion or limitation of incidental or consequential loss or damage, or limitation of the implied warranties, in which case the preceding limitation of exclusions may not apply to such Customers. Please note Warranty service availability and response times may vary from country to country and may also be subject to registration requirement in the country of purchase. If you require assistance regarding warranty conditions, or have any other inquiries, please contact the RVS Customer Care Center or via the official website: www.rearviewsafety.com.

Product	Warranty Period
RVS-300 / RVS-300G	1 year from purchase
Car Black Box System	

Technical Support

If you have any questions or suggest, please contact the following addresses. Contact our support team from 9:30 AM to 5:00 PM EST Monday through Friday.

TEL: (800) 764 1028 FAX: (646) 755-3705

Website: www.rearviewsafety.com E-mail: info@rearviewsafety.com